3Com® Corporation

PathBuilder[™] S200 Series Switch IP and LAN Features Manual

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Part No. T0100, Rev A First Printing: October 1998

Manual is current for Release 5.2M.

About The IP and LAN Feature Protocols Manual

Overview

Introduction

The *IP and LAN Feature Protocols Manual* contains user manuals that describe the options and protocols found in 3Com's Operating Network Software (ONS) License for IP and LAN.

Audience

This binder is intended for users of PathBuilder S200 series switches who are authorized to use the IP or LAN software licenses.

Software Revision Level

This manual is current for Release 5.2M of the 3Com ONS, IP and LAN software licenses.

Special Notices

These special notices emphasize important information in each of the option and protocol user manuals. Each serves a special purpose and appears in the format shown:

■Note

Note emphasizes any significant procedural information.



Caution

Caution provides you with information that, if not followed, can result in damage to software, hardware, or data.



Mise en Garde

Une mise en garde vous fournit des informations qui, si elles ne sont pas observées, peuvent se traduire par des dommages pour le logiciel, le matériel ou les données.



Vorsicht

Ein Vorsichtshinweis macht Sie darauf aufmerksam, daß Nichtbefolgung zu Software-, Hardware- oder Datenschäden führen kann.



Warning

Warning is the most serious notice, indicating that you can be physically hurt.



Avertissement

Un avertissement constitue le message le plus sérieux, indiquant que vous pouvez subir des blessures corporelles.



Warnung

Eine Warnung ist der ernsthafteste Hinweis auf Körperverletzungsgefahr.

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Proteon / Proteon Inc.

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Tymnet / British Telecommunication Public Limited Company

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What's In This Manual

Introduction

This manual contains detailed documentation covering all software features, options, and protocols that are supported in the IP and LAN ONS Software License package.

Bridging

This manual describes features and capabilities of the bridging option.

Routing

This manual describes ARP, IP Routing, Gateway Protocols, configuration information, statistics, and worksheets. Refer to this manual for information on ARP and IP.

Serial Line IP (SLIP)

This manual describes how the packet framing protocol defines a method of encapsulating IP packets for point-to-point serial connections running TCP/IP. Includes configuration, statistics, and reports.

Open Shortest Path First (OSPF)

This manual describes OSPF, an Interior Gateway Protocol, and includes operation, routing information, and configuration.

Ethernet Basics Guide

This manual is part of the basics series of manuals and contains information on:

- Ethernet features
- high-level application examples
- software configuration examples
- explanation of statistics and troubleshooting procedures as they pertain to the ways in which Ethernet is addressed by the ONS

Related Documentation

Introduction

It may become necessary to refer to other documents in order to obtain all of the technical information that you may require. This section identifies all of the related 3Com PathBuilder S200 series switch documentation including:

- PathBuilder S200 Series Switch Installation Manuals on page xii
- Software License Feature Documentation on page xiii
- Software Coldloading/Installation and Alarms and Reports Manuals on page xiv

PathBuilder S200 Series Switch Installation Manuals

Introduction

Installation manuals describe the installation and set up of specific PathBuilder S200 series switch equipment. Installation Manuals provide information that may assist you in locating ports and modifying DTE/DCE settings.

Available Installation Manuals

This table identifies the Installation Manuals available from 3Com:

Part Number	Product Code	Title
T0004	50930	PathBuilder S24x, 26x and 27x Switch Installation Manual
T0032	50927	PathBuilder S21x Switch Installation Manual

Ordering Additional Copies...

These manuals are usually shipped with the products that they apply to. However, if you require additional copies, or have misplaced the one shipped with your product, you can order one from your 3Com representative, quoting the product codes referenced above.

Software License Feature Documentation

Introduction

The PathBuilder S200 series switch ONS software is supported by a suite of protocol documentation to provide you with the information required to fully understand the ways in which you can use your ONS license.

In addition to this IP and LAN Feature Protocols Manual, these additional documentation suites are available:

- PathBuilder S200 Series Basic Protocols
- Multimedia Feature Protocols

PathBuilder S200 **Series Basic Protocols Manual**

This manual contains options and protocol documentation that you must be familiar with to successfully understand the PathBuilder S200 series switch ONS software. The content of this manual, as listed below, describes the underlying functionality of the PathBuilder S200 series switch ONS.

The protocols covered in this manual include:

- Frame Relay Interface/Access
- SNMP
- SLIP
- TELNET
- · Point to Point
- X.25 Configuration Basics Guide
- Configuration for APAD/ATPAD
- Bandwidth Management Basics Manual

Protocols

Multimedia Feature This manual contains options and protocol documentation that you should become familiar with in order required to understand the functionality found in the PathBuilder S200 series switch ONS Multimedia software license.

The protocols covered in this manual include:

- · Voice over IP
- Voice Relay

Software Coldloading/Installation and Alarms and Reports Manuals

Introduction

These manuals offer direction on installing and coldloading software into PathBuilder S200 series switches, and explanations of the alarms and report messages that may be displayed on your terminal screen.

Software Coldloading and Installation Manual

This manual describes the different methods of installing software in nodes containing 3Com Network Access Products. It describes software installation by:

- downloading software from a Macintosh or PC using Communication Software such as Procomm Plus
- Ping software from a LAN

Alarms and Reports Manual

This manual lists the PathBuilder S200 series switch operating software alarms and reports in alphabetical order. Descriptions, and suggested actions, are also included where applicable.